

## Contents

### Regular Papers

- 4-*O*-Methyl- $\beta$ -L-idopyranosyluronic acid linked to xylan from kraft pulp: isolation procedure and characterisation by NMR spectroscopy  
A. Teleman, M. Siika-aho, H. Sorsa, J. Buchert, M. Perttula, T. Hausalo and M. Tenkanen (Espoo, Finland) . . . . . 1
- Synthesis of dibekacin analogs containing 3-oxa- and 3-aza-2,3,4-trideoxy-D-glycero-hexopyranose  
R. Kuwahara and T. Tsuchiya (Kawasaki, Japan) . . . . . 15
- $\alpha$ -Hydrogen elimination in some carbohydrate triflates  
A. El Nemr, T. Tsuchiya and Y. Kobayashi (Kawasaki, Japan) . . . . . 31
- Structural study and serological characterisation of the O-specific polysaccharide of *Hafnia alvei* PCM 1185, another *Hafnia* O-antigen that contains 3,6-dideoxy-3-[(*R*)-3-hydroxybutyramido]-D-glucose  
E. Katzenellenbogen, J. Kübler, A. Gamian, E. Romanowska (Wrocław, Poland), A.S. Shashkov, N.A. Kocharova, Y.A. Knirel and N.K. Kochetkov (Moscow, Russian Federation) . . . . . 61
- Structure of a new *N*-acetylglucosaminic acid-containing O-specific polysaccharide of *Proteus penneri* strains 19 and 35  
S.N. Senchenkova, A.S. Shashkov, Y.A. Knirel, N.K. Kochetkov (Moscow, Russian Federation), K. Zych and Z. Sidorczyk (Łódź, Poland) . . . . . 71
- Formation of kinetically trapped gels in the maltodextrin–gelatin system  
S. Alevisopoulos, S. Kasapis (Bedfordshire, UK) and R. Abeysekera (Yorkshire, UK) . . . . . 79
- The extracellular polysaccharide of *Pichia (Hansenula) holstii* NRRL Y-2448: The structure of the phosphomannan backbone  
L.A.S. Parolis, J.Ø. Duus, H. Parolis, M. Meldal and K. Bock (Valby, Denmark) . . . . . 101
- Composition and block structure of alginates from New Zealand brown seaweeds  
R. Panikkar and D. J. Brash (Dunedin, New Zealand) . . . . . 119
- Notes*
- Determination of the sugar linkage position in glycosides using ammonia chemical ionization mass spectrometry at low gas pressure  
G. Reznicek and M. Mathà (Vienna, Austria) . . . . . 133
- A convenient synthesis of *endo*-H ethylidene acetals  
D. Rentsch and R. Miethchen (Rostock, Germany) . . . . . 139

Announcement . . . . .	C1
Information for Authors . . . . .	C3
<i>Regular Papers</i>	
Structural characterisation of xyloglucan secreted by suspension-cultured cells of <i>Nicotiana plumbaginifolia</i> I.M. Sims, S.L.A. Munro, G. Currie (Parkville, Australia), D. Craik (St. Lucia, Australia) and A. Bacic (Parkville, Australia) . . . . .	147
Synthesis of eight glycosides of hexasaccharide fragments representing the terminus of the O-polysaccharide of <i>Vibrio cholerae</i> O:1, serotype Inaba and Ogawa, bearing aglycons suitable for linking to proteins Y. Ogawa, P.-s. Lei and P. Kováč (Bethesda, MD, USA) . . . . .	173
Calystegine B <sub>4</sub> , a novel trehalase inhibitor from <i>Scopolia japonica</i> N. Asano, A. Kato, H. Kizu, K. Matsui (Kanazawa, Japan), A.A. Watson and R.J. Nash (Aberystwyth, UK) . . . . .	195
c,T-Dependence of the self-diffusion in concentrated aqueous solutions of methyl $\alpha$ - and $\beta$ -D-glucopyranosides A. Heinrich-Schramm (Regensburg, Germany), C. Buttersack (Braunschweig, Germany) and H.-D. Lüdemann (Regensburg, Germany) . . . . .	205
Structural studies of a neutral polysaccharide produced by <i>Alcaligenes latus</i> Y. Nohata (Mie, Japan), J.-i. Azuma (Kyoto, Japan) and R. Kurane (Ibaraki, Japan) . . . . .	213
Structural study of a highly O-acetylated core of <i>Legionella pneumophila</i> serogroup 1 lipopolysaccharide Y.A. Knirel (Borstel, Germany; Moscow, Russian Federation), H. Moll and U. Zähringer (Borstel, Germany) . . . . .	223
Calcium gelation of pectic polysaccharides isolated from unripe tomato fruit A.J. MacDougall, P.W. Needs, N.M. Rigby and S.G. Ring (Norwich, UK) . . . . .	235
<i>Note</i>	
Synthesis of 3-deoxy-2,4-di-O-methyl-D-erythro-pentono-1,5-lactone and of its L enantiomer by stereoselective hydrogenation of $\alpha$ , $\beta$ -unsaturated aldono-1,5-lactones F. Zamora and J.A. Galbis (Sevilla, Spain) . . . . .	251
Structure of a surface polysaccharide from <i>Acinetobacter baumannii</i> O16 S.R. Haseley, H.J. Diggle and S.G. Wilkinson (Hull, UK) . . . . .	259
Author index . . . . .	C5
Subject index . . . . .	C7
Contents . . . . .	C11

